



environmental services, inc.

### PHASE II LIMITED SUBSURFACE INVESTIGATION

2325 Wisconsin Street Downers Grove, Illinois

Prepared For:

American National Bank & Trust Company of Chicago 120 South LaSalle Street, Mail Code IL1-1201 Chicago, Illinois 60603

Prepared By:

EPS Environmental Services, Inc. 7237 West Devon Avenue Chicago, Illinois 60631

Nicholas J. Cazzona P.E. Senior Project Engineer

Reviewed By:

Peter N. Partipilo, C.H.M.M. Senior Environmental Specialist

Project Number:

3936-1101

December 12, 2001



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#### 1.0 GENERAL

This Report presents the methodology, findings and conclusions of the Phase II Limited Subsurface Investigation (Subsurface Investigation) conducted at 2325 Wisconsin Street, Downers Grove, Illinois (the Property).

### 1.1 Authorization

Authorization to perform this Subsurface Investigation was given by acceptance of EPS Environmental Services, Inc. (EPS Environmental) proposal number 3936-1101 by American National Bank & Trust Company of Chicago (Client).

### 1.2 Background Information

A Phase I Environmental Property Assessment (Phase I) conducted by EPS Environmental dated November 1, 2001 (LPS Environmental Project #3899-1001), identified the following environmental concerns; 1) the Property may have been negatively impacted by current and/or historical degreasing and metal plating operations; and 2) a potential for predominant contaminants of concern associated with hazardous substances/petroleum to have migrated onto the Property from underground storage tanks (USTs) and/or historical manufacturing operations located on the west adjacent site

### 1.3 Purpose

The purpose of the Subsurface Investigation was to determine if predominant contaminants of concern associated with current/historical degreasing and metal plating operations had negatively impacted Property soil/groundwater, and to determine if hazardous substances and/or petroleum typically used in machining operations had migrated onto the Property from the west adjacent site.

### 2.0 SAMPLING PROCEDURE

Soil borings were conducted on November 29, 2001 under the direction and supervision of Mr. Nicholas J. Cuzzone, P.E., Senior Project Engineer for EPS Environmental. Four soil borings (GP-1, GP-2, HB-1 and HB-2) were conducted to address the following areas of concern (AOCs) on the Property:

### AOC-1/ West adjacent site:

Two soil borings (GP-1 and GP-2) were conducted along the west Property border.



### AOC-2/ Former plating area:

One soil boring (HB-1) was conducted inside the Property building where plating operations were formerly conducted.

### AOC-3/ Vapor degreaser:

One soil boring (HB-2) was conducted near a vapor degreaser located in the current plating area in the Property building.

The soil boring locations are depicted on Figure 1 - Boring Location Map following the text of this Report.

### 2.1 Field Activities

Soil borings GP-1 and GP-2 were conducted following American Society for Testing and Materials (ASTM)-recommended practices for continuous thin wall probe sampling. A truck-mounted, hydraulically-powered percussion/probing device (Geoprobe®) was used to advance a two-inch diameter steel drive point to the top of the desired sampling interval. Soil samples were collected in 48-inch intervals by advancing two-inch diameter steel thin-wall probe samplers. A Bosch® jackhammer with Geoprobe® equipment was used to advance a 1.25-inch diameter steel drive point to the top of the desired sampling interval for borings HB-1 and HB-2 (located in areas inaccessible to the Geoprobe®). Soil samples from these borings were collected in 24-inch intervals by advancing two-inch diameter steel thin-wall probe samplers. Samplers were attached to the leading end of extension probe rods, and driven downward until desired target depths were reached. After the desired sampling interval was obtained, the sampler was extracted, opened and the samples were collected.

The borings were advanced six to 16 feet below ground surface (bgs). Three to seven soil samples were collected from each boring. Triplicate soil samples were collected from each sampling interval. One of the triplicate samples was placed into an air-tight plastic bag for field screening, the second sample was placed into a glass sample jar and sealed with a Teflon-lined plastic lid, allowing no head space, and the third sample was placed into pre-weighed 40-ml glass vials and preserved with methanol or sodium bisulfite for possible laboratory analysis.

All soil samples were examined for visual signs of petroleum hydrocarbon contamination and for the presence of unusual odors. Soil samples in airtight plastic bags were allowed to equilibrate to 70° Fahrenheit for approximately 10 minutes. Headspace air in each sample bag was then screened with a RAE photo-ionization detector (PID) and the screening results were recorded on Geological Boring Logs (Appendix A). The PID records total concentrations of organic vapors; however, the



instrument does not differentiate between types of organic vapors and is inconclusive in identifying specific contaminants.

All downhole sampling equipment was cleaned with water and non-alkaline soap between each sampling event. This procedure was used to minimize the possibility of cross contamination. After sampling was complete, all boreholes were properly abandoned to grade with hydrated bentonite pellets and asphalt or concrete patch.

### 2.2 Field Observations

PID screening results ranged from 0.6 to 2,000 parts per million (ppm). No visual or olfactory signs of petroleum hydrocarbon or solvent contamination were noted in any soil samples obtained from the borings. PID screening results are included on the Geological Boring Logs (Appendix A).

### 3.0 PHYSICAL SETTING

### 3.1 Topography

According to the Wheaton Quadrangle map, the general topography of the area displays an approximate five-foot decrease in elevation within ¼ mile northwest of the Property.

### 3.2 Soils

According to ISGS Circular #460, the Property is located on the Mackinaw Member of Henry Formation. This Pleistocene Age system consists of sand and gravel, generally well-sorted and evenly bedded; deposits in valleys; mostly glacial outwash in terraces, which are remnants of valley trains, and includes similar deposits in glacial sluiceways.

Based on ISGS Circular #532, Potential for Contamination of Shallow Aquifers from Land Burial of Municipal Waste, the Property is located within the rating area C1. The rating denotes the capacities of earth material to accept, transmit, restrict or remove contaminants from waste effluent. In general, a C1 rating area contains permeable bedrock within 20 to 50 feet of the surface, overlain by till or other fine-grained material.

### 3.3 Geologic Profile

Based on borings conducted, the geologic profile of the Property consists of one to two feet of sand and gravel fill material, underlain by clay or silty clay to the maximum boring depth of 16 feet bgs. A wet gravelly clay layer was encountered in boring GP-1 approximately nine feet bgs. The geological profile of the native soil encountered appears to be consistent with ISGS Circular #532.



### 4.0 LABORATORY ANALYSES

### 4.1 Analytical Program

Based on field-screening results and observations, three representative soil samples were submitted for laboratory analysis. Soil samples submitted for analysis were obtained as previously described, chilled and transported under chain of custody to Great Lakes Analytical of Buffalo Grove, Illinois. One soil sample from AOC-1 (GP-1/9') was analyzed for volatile organic compounds (VOCs), Resource Conservation and Recovery Act (RCRA) metals and polynuclear aromatic hydrocarbons (PNAs), predominant contaminants associated with manufacturing processes. One soil sample from each boring in AOC-2 (HB-1/3'-4') and AOC-3 (HB-2/1'-2') was analyzed for VOCs, pH, cyanide and total priority pollutant metals, predominant contaminants associated with degreasing and plating operations. All analyses were performed in accordance with SW-846, *Test Methods for Evaluating Solid Waste*, using appropriate USEPA methodology. See Appendix B for Chain of Custody Record.

### 4.2 Evaluation of Laboratory Results

To assess potential detrimental environmental impacts, the Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier 1 soil remediation objective values (SROs) were used as a guideline for qualifying the concerns associated with contaminated soil/groundwater. SROs are numerical concentration goals for contaminated soil. Tier 1 SROs are further separated into two objectives dependent on intended land use (either residential or commercial/industrial). The TACO remediation objectives apply to sites where the IEPA has requested or forced remedial actions, or to sites where voluntary cleanups have been initiated under IEPA supervision.

To apply TACO Tier 1 SROs, three exposure routes must be addressed: ingestion, inhalation, and potential to contaminate groundwater. The ingestion exposure route applies to contaminant concentrations above TACO Tier 1 SROs within the first three feet below the land surface. The inhalation exposure route applies to contaminant concentrations above TACO Tier 1 SROs within the first ten feet below land surface. The potential to contaminate groundwater is further separated into two objectives dependent on Class I or Class II groundwater designation. The IEPA generally will take a more conservative approach by assuming Class I groundwater to be present, unless otherwise documented. Based on review of ISGS data and soil borings conducted on the Property, it is the opinion of this firm groundwater underlying the Property would be classified as Class II.

### 4.3 Analytical Results

Analyses conducted on the representative sample from AOC-1 (GP-1/9') identified varying concentrations of various RCRA metals above laboratory detection limits. No VOCs or PNA compounds were identified above laboratory detection limits in soil sample GP-1/9'.



Analyses conducted on the representative samples from AOC-2 (HB-1/3'-4') and AOC-3 (HB-2/1'-2') identified varying concentrations of various priority pollutants metals and VOCs (cis-1,2-dichloroethe and/or tetrachloroethene) above laboratory detection limits.

Refer to Appendix B for Laboratory Report, Chain of Custody and comparison table in Appendix C.

### 5.0 CONCLUSIONS

The purpose of the Subsurface Investigation was to determine if predominant contaminants of concern associated with current/historical degreesing and metal plating operations had negatively impacted Property soil/groundwater and to determine if hazardous substances and/or petroleum typically used in machining operations had migrated onto the Property from the west adjacent site.

Four soil borings were conducted to address the following areas of concern (AOCs) on the Property:

### AOC-1/ West adjacent site:

Two soil borings (GP-1 and GP-2) were conducted along the west Property border. No visual or olfactory signs of petroleum hydrocarbon or solvent contamination were noted in any soil samples obtained from the borings. One representative soil sample (GP-1/9') was analyzed for volatile organic compounds (VOCs), Resource Conservation and Recovery Act (RCRA) metals and polynuclear aromatic hydrocarbons (PNAs), predominant contaminants associated with manufacturing processes. Analyses conducted on the representative sample from AOC-1 identified varying concentrations of various RCRA metals above laboratory detection limits. The concentrations of metals were below Illinois Environmental Protection Agency (IEPA) Tiered Approach to Corrective Action Objectives (TACO) Tier 1 soil remediation objective values (SROs) for residential land use (the most stringent SROs), with the exception of arsenic. The concentration of arsenic exceeded the Tier 1 ingestion SRO. According to TACO Appendix A, Table G (Concentrations of Inorganic Chemicals in Background Soils), the arsenic concentration detected is within the range found throughout metropolitan areas. As such, it is the opinion of this firm that the arsenic concentration is considered background and not associated with the west adjacent site.

No VOCs or PNA compounds were identified above laboratory detection limits in the analyzed soil sample from ACC-1. Therefore no Tier 1 SROs were exceeded.

Based on results of the Limited Subsurface Investigation, no further investigation is recommended in AOC-1.



### AOC-2/ Former plating area:

One soil boring (HB-1) was conducted inside the Property building where plating operations were formerly conducted. No visual or olfactory signs of contamination were noted in any soil samples obtained from the boring. One representative soil sample (HB-1/3'-4') was analyzed for VOCs, pH, cyanide and total priority pollutant metals (metals), predominant contaminants associated with plating and degreasing operations. Varying concentrations of various metals and one VOC (tetrachloroethene) were identified above laboratory detection limits in the representative soil sample. No cyanide was identified above laboratory detection limits in the analyzed soil sample. The concentration of metals and tetrachloroethene were below Tier 1 SROs for residential land use and Class II groundwater. The pH of the analyzed soil sample was within the normal range for soils in the area. It should be noted, the laboratory detection limit for arsenic (2.74 mg/kg) exceeded the Tier 1 ingestion SRO. However, as previously stated, should arsenic be present in sample HB-1/3'-4' above the ingestion SRO, it is the opinion of this firm that the arsenic concentration is considered background and not associated with historical operations on the Property.

Based on results of the Limited Subsurface Investigation, no further investigation is recommended in AOC-2.

### AOC-3/ Vapor degreaser:

One soil boring (HB-2) was conducted near a vapor degreaser located in the current plating area. No visual or olfactory signs of solvent contamination were noted in any soil samples obtained from the boring. One representative soil sample (HB-2/1'-2') was analyzed for VOCs, pH, cyanide and metals, predominant contaminants associated with degreasing and plating operations. Varying concentrations of various metals and two VOCs (cis-1,2-dichloroethene and tetrachloroethene) were identified above laboratory detection limits in the representative soil sample. No cyanide was identified above laboratory detection limits in the analyzed soil sample. The concentration of metals and tetrachloroethene were below Tier 1 SROs for residential land use and Class II groundwater. The pH of the analyzed soil sample was within the normal range for soils in the area. It should be noted, the laboratory detection limit for arsenic (2.74 mg/kg) exceeded the Tier 1 ingestion SRO. However, as previously stated, should arsenic be present in sample HB-2/1'-2' above the ingestion SRO, it is the opinion of this firm that the arsenic concentration is considered background and not associated with historical operations on the Property.

Based on results of the Limited Subsurface Investigation, no further investigation is recommended in AOC-3.

### 6.0 WARRANTY AND LIMITATION OF LIABILITY

EPS Environmental's Limited Subsurface Investigation was of limited scope. The Limited Subsurface Investigation was structured to screen for the presence of soil contamination in the area



in which the borings were conducted, and was not intended to be an all-inclusive search for soil contamination across the subject Property. However, the Limited Subsurface Investigation can provide an indication of the presence or absence of those contaminants sampled and analyzed for at the sample locations, at the time the samples were obtained in the sampled media.

EPS Environmental warrants that the findings and conclusions contained in this Report have been promulgated in accordance with generally accepted environmental engineering methods. These environmental methods have been developed to provide the Client with information regarding apparent indications of existing or potential environmental conditions relating to the soils and are limited to the conditions observed at the time that the Limited Subsurface Investigation was conducted. This Report is also limited to the information available at the time it was prepared. There is a distinct possibility that conditions may exist at the subject Property which were not apparent during the Limited Subsurface Investigation. EPS Environmental makes no other warranties, expressed or implied.

### 6.1 Confidentiality

EPS Environmental shall hold all field observations, borings, logs, analysis, laboratory reports and other reports in strict confidence and shall not disclose these items except to the Client or except as ordered by any state or federal agency or court of law. In the event that EPS Environmental is ordered by a state or federal agency or court of law to make any such disclosures, the shall hold EPS Environmental harmless from liability for any and all damages that the Client may suffer due to EPS Environmental's disclosure. In addition, the Client shall indemnify EPS Environmental from any and all damages EPS Environmental may suffer due to any action which results in an order that EPS Environmental make a disclosure.

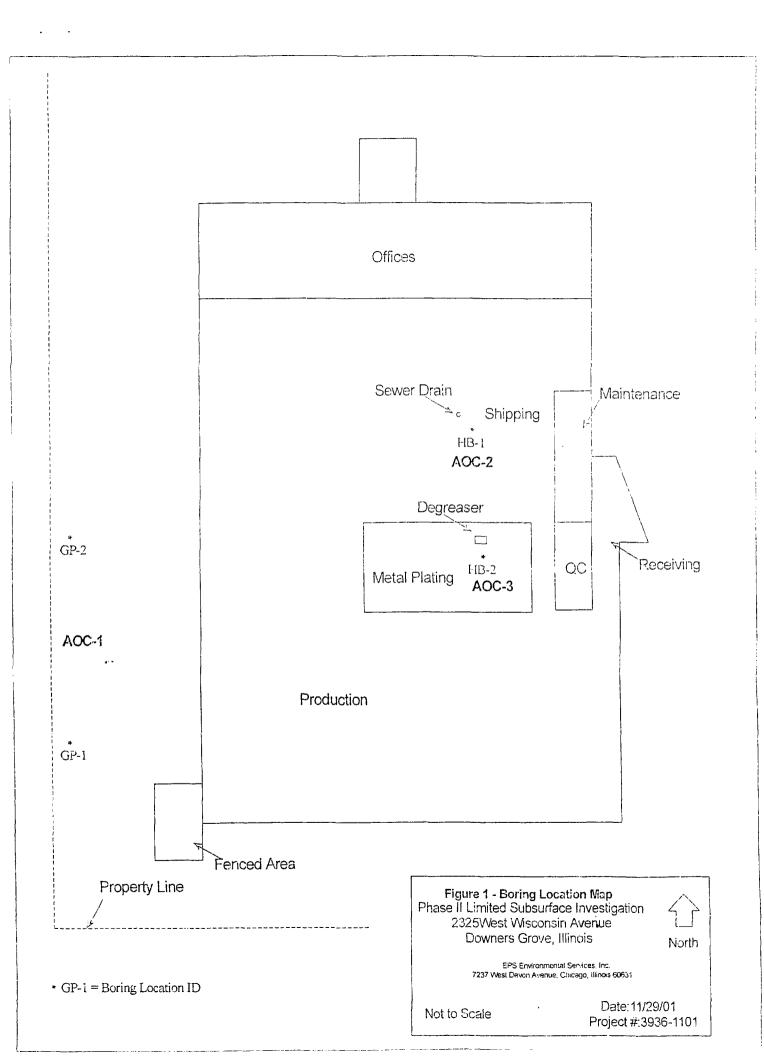
### 6.2 Reliance on Limited Subsurface Investigation and Report

The Limited Subsurface Investigation and Report has been conducted exclusively for the Client and it is intended that only those parties will rely on the Report. The Limited Subsurface Investigation and Report will be solely for the benefit of the Client and may not be relied upon by other parties.



## FIGURE 1

Boring Location Map





## APPENDIX A

Geologic Boring Logs

# EPS ENVIRONMENTAL SERVICES, INC. GEOLOGIC BORING LOG

Project Address: 2325 West Wisconsin Avenue, Downers Grove Project # 3936-1101

Engineer/Geologist: Nicholas J. Cuzzone

Weather Condition: Dry X Wet Snow Temp 40's

Boring # GP-1 Date: 11/29/01 Time: 0840 Location: See Boring Location Map

DESCRIPTION OF SOILS	DEPTH	SAMPLE	PID- PPM	ODOR
Asphalt Gravel Fill Material	-			
	2			;
	-		4.3	None
	-4			
CLAY, Silty, Brown, Trace small gravel, Dry	-			
	-6		6.8	None
	_			
	-8		4.8	None
	-	GP-1/9'	15.3	None
Wet, gravelly clay	-10			
	-		0.0	2.
	-12		9.0	None
CLAY, Gray, Dry	-14		3.6	None
			3.0	rvone
	-16		4.1	None
Total Depth: 16 feet	-			
Rig: Truck-mounted Geoprobe Sampler Type: Clear plastic sleeves	-18			

## EPS ENVIRONMENTAL SERVICES, INC. GEOLOGIC BORING LOG

oject Address: 2325 West Wisconsin Avenue, Downers Grove Project # 3936-1101

Engineer/Geologist: Nicholas J. Cuzzone

Weather Condition: Dry X Wet Snow Temp 40's

Boring # GP-2 Date: 11/29/01 Time: 0920840 Location: See Boring Location Map

DESCRIPTION OF SOILS	DEPTH	SAMPLE	PID- PPM	ODOR
Asphalt Gravel Fill Material	-			
	-2			
	-		0.6	None
	-4		ļ	
CLAY, Silty, Brown, Trace small gravel, Dry	-			
	-6		1.4	None
	-			
	-8	GP-2/8'	3.0	None
	-		1.0	None
	-10		1.9	
••	-12		2.0	None
CLAY, Gray, Dry	-			
CLA1, Olay, Dly	-14		2.2	None
	-			
	-16		1.8	None
Total Depth: 16 feet	-			
Rig: Truck-mounted Geoprobe Sampler Type: Clear plastic sleeves	-18			

## EPS ENVIRONMENTAL SERVICES, INC. GEOLOGIC BORING LOG

ect Address: 2325 West Wisconsin Avenue, Downers Grove Project # 3936-1101

Engineer/Geologist: Nicholas J. Cuzzone

Weather Condition: Dry X Wet Snow Temp 40's
Boring #HB-1 Date: 11/29/01 Time: 1015 Location: See Boring Location Map

DESCRIPTION OF SOILS	DEPT H	SAMPLE	PID- PPM	ODOR
Concrete 6"	_			
Gravel Fill Material	-2		650	None
CLAY, Silty, Brown, Dry		HB-1/3`-4`	2000	None
CLAY, Gray, Dry	-			
	-6		320	None
Total Depth: 6 feet	-			
Rig: Bosch hand held hammer	-8			
Sampler Type: Clear plastic sleeves	-			
	-10			
	-			
	-12			
	-			
	-14			
	-			
	-16			
	-			
	-18			
			<u></u>	

# EPS ENVIRONMENTAL SERVICES, INC. GEOLOGIC BORING LOG

Project Address: 2325 West Wisconsin Avenue, Downers Grove Project # 3936-1101
Engineer/Geologist: Nicholas J. Cuzzone

Weather Condition: Dry X Wet Snow Temp 40's

Boring # HB-2 Date: 11/29/01 Time: 1100 Location: See Boring Location Map

DESCRIPTION OF SOILS	DEPT H	SAMPLE	PID- PPM	ODOR
Concrete 6"	_			
Gravel and Sand Fill Material	-2	HB-2/1`-2'	136.2	None
CLAY, Silty, Brown, Dry	-4		14.1	None
	-			
CLAY, Gray, Dry	-6		3.0	None
	-8		2.5	None
Total Depth: 7 feet				
Rig: Bosch hand held hammer Sampler Type: Clear plastic sleeves	-10			
	-			
··	-12			
	-			
	-14			
	-			
	-16			
	-			
	-18			



# APPENDIX B

Chain of Custody Record and Laboratory Reports





1380 Busch Porkway Buffalo Grove, IL 60039-4505 (347) 503-7766 FAK (847) 508-7772 140 E. Ryan Hoad Oak Creek, WI 53154 (414) 570-9460 FAX (414) 570-9461

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07 December 2001

Nick Cuzzone EPS Environmental Services, Inc. 7237 W. Devon Avenue Chicago, IL 60631 RE: 2325 W. Wisconsin Downers Grove

Enclosed are the results of analyses for samples received by the laboratory on 11/30/01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andy Johnson



Email: info@glalabs.com (847) 803-7766 FAX (847) 808-7772

EPS Environmental Services, Inc.

7237 W. Devon Avenue

Chicago IL, 60631

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported:

12/07/01 16:41

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GP-1@9	B111405-01	Soil	11/29/01 00:00	11/30/01 09:45
GP-2@8	B111405-02	Soil	11/29/01 00:00	11/30/01 09:45
HB-1@3-4	B111405-03	Soil	11/29/01 00:00	11/30/01 09:45
HB-2@1-2	B111405-04	Soil	11/29/01 00:00	11/30/01 09:45

Great Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Email: info@glalabs.com (847) 803-7766 FAX (847) 808-7772

EPS Environmental Services, Inc.

7237 W. Devon Avenue

Chicago IL, 60631

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

# General Chemistry Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-1@3-4 (B111405-03) Soil	Sampled: 11/29/01 00:00	Received	: 11/30/01	09:45					
Cyanide (total) pH	ND 9.66		mg/kg dry pH Unis	1 0	1120105 1110515	12/06/01 11/30/01	12/06/01 11/30/01	EPA 9012A EPA 9045B	
HB-2@1-2 (B111405-04) Soil	Sampled: 11/29/01 00:00	Received	: 11/30/01	09:45					
Cyanide (total) pH	ND 9.04		mg/kg dry pH Units	!	1120105 1110515	12/06/01 11/30/01	12/06/01 11/50/01	EPA 9012A EPA 9045B	

Great Lakes Analytical



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EPS Environmental Services, Inc.

7237 W. Devon Avenue

Chicago IL, 60631

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## Priority Pollutant Metals by EPA 6000/7000 Series Methods

### Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-1@3-4 (B1) 1405-03) Soil	Sampled: 11/29/01 00:00	Received	1: 11/30/01	09:45					
Antimony	ND	5.48	mg/kg dry	1	1120088	12/06/01	12/06/01	EPA 6010B	
Arsenic	. ND	2.74	n	1)	н	ti	n	D	
Becyllista	ND	0.548	h		11	n	11	n	
Cadmium	ND	0.548	11	†I	0	11	"	n	
Chromica	12.4	0.548	n	11	*1	н	"	II	
Copper	15.3	2.74	н	*1	**	11	п	п	
Lead	12.4	1.10	11	"	U	o o	n	n .	
Nickel	15.9	2.74	11	n	**	0	n n	n	
Selonium	ND	2.74	n	п	н	n	n	11	
Silver	ND	2.74	0	11		u u	11	n	
Thallium	5.12	4.38	ч	**	и	11		9	
Zinc	53.7	27.4	"	"	,	μ.	"	*	
HB-2@1-2 (B111405-94) Soil	Sampled: 11/29/01 00:00	Received	1: 11/30/01	09:45					
Antimony	ND	5.57	mg/kg dry	1	1120088	12/06/01	12/06/01	EPA 6010B	
Arsenic	ND	2.78	u	"	н	11	n	и	
Beryllium	ND	0.557	n	н	"	**	н	51	
Cadmium	ND	0.557	n	n	п	u	п	"	
Chromium	15.5	0.557	**		H	11		***	
Copper	14.5	2.78	))	*1	u	н	"	11	
Lead	10.5	1.11	*	11	H	n	**	*1	
Nickel	30.6	2.78	U	**	11	**	11	H	
Selenium	ND	2.78	tr	*1	N	н	•	It	
Silver	ND	2.78	н	"	0	U	u	ti .	
Thallium	5.75	4.45	ti	**	n	11	11	4	
Zine	52.2	27.8	n	"	"	rı	11	"	

Great Lakes Analytical

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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EPS Environmental Services, Inc.

7237 W. Devon Avenue

Chicago IL, 60631

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

### Total Metals by EPA 6000/7000 Series Methods

### Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-1@9 (B111405-01) Soil	Sampled: 11/29/01 00:00   1	Received:	11/30/01 09	9:45					
Mercury	ND	0.0474	mg/kg diy	{	1120084	12/06/01	12/06/01	EPA 7471A	G2
Arsenic	3.79	2.97	"	"	1120088	12/06/01	12/06/01	EPA 6010B	
Basium	41.0	29.7	41	ш	n	Þ	•	n	
Cadmium	ND	0.593	l)	н	11	n	ч	tt.	
Chromium	11.6	0.593	11	"	0		-1	11	
Lead	9.90	1.19	11	"	11	•	•	**	
Selenium	2.97	2.97	п		n	11	a.	н	
Silver	DИ	2.97	и	"	п	1*	п	ji.	
HB-1@3-4 (B111405-03) Soil	Sampled: 11/29/01 00:00	Received	1: 11/30/01	09:45	_				
Mercury	ND	0.0438	mg/kg dry	1	1120084	12/06/01	12/06/01	EPA 7471A	G2
HB-2@1-2 (B111405-04) Soil	Sampled: 11/29/01 00:00	Received	1: 11/30/01	09:45					
Mercury	ND	0.0445	mg/kg dry	1	1120084	12/06/01	12/06/01	EPA 7471A	G2

Great Lakes Analytical

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EPS Environmental Services, Inc.

7237 W. Devon Avenue Chicago IL, 60631 Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

### Volatile Organic Compounds by EPA Method 5035/8260B

### Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-1@9 (B111405-01) Soil	Sampled: 11/29/01 00:00	Received:	11/30/01 0	9:45			······································		G4,G19
Acetone	ND	29.7	ug/kg dry	l	1120056	12/04/01	12/06/01	5035/8260B	
Benzene	ND	5.93	"	11	n.	11	"	n	
Bromodichloromethane	ND	5.93	н	н	*	n	n	U	
Bromoform	ND	5.93	11	n	"	P	11	u	
Bromomethane	ND	5.93	n	ti.	и	"	"	31	
2-Butanone	ND	11.9	n	н	tr.	н	n	**	
Carbon disulfide	ND	5.93	**	D	11	r	n	"	
Carbon tetrachloride	ND	5.93	11	p	и	n		H .	
Chlorobenzene	СИ	5.93	11	U	11	п	п	н	
Chlorodibromomethane	ND	5.93	••	1*	11	**	11	"	
Chloroethane	ND	5.93	11	н	"	11		"	
Chloroform	ND	5.93	11	11	II.	**	н	11	
Chloromethane	ND	5 93	••	0	+1	"	· r	п	
1,1-Dichlorocthane	ND	5.93	11	U	**	n	ч	"	
1,2-Dichloroethane	ND	5.93	11	11	н	**		**	
1.1-Dichloroethene	ND	5.93	**	,,	п	n	n	*,	
cis-1,2-Dichloroethene	ND	5.93	u	111	н	p	11	u	
trans-1,2-Dichloroethene	ND	5.93	"	v	u	•	**	н	
1.2-Dichloropropane	ND	5.93	п	11	11	n	**	**	
cis-1,3-Dichioropropene	ND	5.93	11	n	u	n	u	н	
trans-1,3-Dichloropropene	ND	5.93	н	**	••		11	n	
Ethylbenzene	ND	5.93	**	0	н	n	11	**	
2-Hexanone	ND	11.9	**	n	**	n	n	n	
Methylene : Loride	ND	5.93	H	21		n	91	**	
4-Methyl-2-pentanone	ND	11.9	н	ır	n	11	tr	n	
Styrene	ND	5.93	"	"	**	11	n	n	
1,1,2,2-Tetrachloroethane	ND	5.93	o o	ıı	Ħ	11	*1	II.	
Tetrachloroethene	ND	5.93	1*	"	h	и	11	11	
Toluene	ND	5.93		11	t1	ii	11	n	
1,1,1-Trichioroethane	ND	5.93	**	1+	и	n	11	Ħ	
1,1,2-Trichloroethane	ND	5.93	U	u	11		н	11	
Trichloroethene	ND	5.93	n	н	u	17	**	"	
Trichlorofluoromethane	ND	5.93	11	н	u.	11	e e	н	
Vinyl acetate	ND	11.9	11	**		4	"	,,	
Vinyl chloride	ND	5.93		n	"	u	tr.	"	
Total Xylenes	ND	5.93		U	11	ц	Ħ	•	
Surrogate: Dibromofluorome		113 %		2-134	"			"	
		125 %		2-134 8-145	"	"	"	H	
Surrogate: 1,2-Dichloroethan	rie-u4	99.3 %		-14J -121	,,	,,	11	,,	
Surrogate: Toluene-d8				-121 8-113	,,	"	,,	"	
Surrogate: 4-Bromofluorobe	nzene	81.3 %	/0.0	0-113	"	"	"	,,	

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EPS Environmental Services, Inc.

7237 W. Devon Avenue Chicago IL, 60631 Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## Volatile Organic Compounds by EPA Method 5035/8260B

### Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note:
HB-L@3-4 (B111405-03) Soil	Sampled: 11/29/01 00:00	Received	: 11/30/01	09:45					G4,G19
Acetone	ND	27.4	ug/kg dry	1	1120056	12/04/01	12/06/01	5035/8260B	
Benzene	ND	5.48		11	0	u	n	"	
Broniodichloromethane	ND	5.43	1:	11	u	u	**	n	
Bromoform	ND	5.48	II.	þ	u	**	u,	п	
Bromomethane	ND	5.48	п	n	11	n	11	n	
2-Butanone	ND	11.0	**	h	11	н	"	n	
Carbon disulfice	ND	5.48	0	**	**	"	•	"	
Carbon tetrachloride	ND	5.48		0	n	0	17	н	
Chlorobenzene	ND	5.48	Ð	11	0	ч	D.	п	
Chlorodibromomethane	ND	5.48	"	n	•	**	"	v	
Chloroethane	ND	5.48	"	p	"	n	n	n	
Chloroform	ND	5.48	11	0	"	11	*11	и	
Chloromethane	ND	5.48	n.	и	п	11	ш	0	
1,1-Dichloroethane	ND	5.48	4	U	n	1)	"	rr .	
1,2-Dichloroethane	ND	5.48	**	ir.	,,	0	11		
1.1-Dichloroethene	ND	5.48	н	n	н	11	11	n	
cis-1.2-Dichloroethene	ND	5.48	n	11	u	"	.,	"	
trans-1,2-Dichloroethene	ND	5.48	u		11		9	11	
1.2-Dichloropropane	ND	5.48	11		11	11	11	u	
cis-1,3-Dichloropropene	ND	5,48	n	**	,,	u	ır	**	
trans-1,3-Dichloropropene	ND	5.48	n	11	rı		11	н	
Ethylbenzene	ND ND	5.48	;)	**	"	11	п	11	
2-Hexanone	ND	11.0	и	n	11	n	**	"	
		5.48		11		,,			
Methylene chloride	ND ND	11.0	0	H	,	11		**	
4-Methyl-2-pentanone	ND ND	5.48	u u		,,	,,		 n	
Styrene		5.48	1)		ti	n		,,	
1,1,2,2-Tetrachloroethane	ND		,,			,, It		"	
Tetrachloroethene	134	5.48		,,	,,	,,	,,		
Toluene	ND	5.48	**	n	11	**		,,	
1,1,1-Trichloroethane	ND	5.48	"	** **		"	,	,,	
1,1,2-Trichloroethane	ND	5.48	"	ь.	,,		"	"	
Trichloroethene	ND	5.48	"	"	"	"			
Trichlorofluoromethane	ND	5.48	"	"	"		"		
Vinyl acetate	ND	11.0				**		"	
Vinyl chloride	ND	5.48	"	"	"	11	"	**	
Total Xylenes	ND	5.48	11 	h		11	**************************************	"	
Surrogate: Dibromofluorometh	nane	197 %		?-134	n	"	tt .	r	
Surrogate: 1,2-Dichloroethane		128 %	50.8	3-145	"	tt tt	"	"	
Surrogate: Tolucne-d8		107 %	82-	-121	"	"	"	"	
Surrogate: 4-Bromofluorobenz	ene	96.0 %	76.8	3-113	"	,,	"	"	

Great Lakes Analytical



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EPS Environmental Services, Inc.

7237 W. Devon Avenue Chicago IL, 60631 Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## Volatile Organic Compounds by EPA Method 5035/8260B

### Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-2@1-2 (B111405-04) Soil	Sampled: 11/29/01 00:00	Received	: 11/30/01	09:45			· · · · · · · · · · · · · · · · · · ·		G4,G19
Acetone	ND	27.8	ug/kg dry	1	1120056	12/04/01	12/06/01	5035/8260B	
Benzone	ND	5.57		n n	11	11	11	P	
Brow adichler as others	ND	5.57	11			n	н	'n	
Bromoform	ND	5.57	11	P	n	D	**	n	
Bromomethane	ND	5.57	\$1	0	"	"	11	II.	
2-Butanone	ND	11.1	11		"	o o	n	"	
Carbon disulfide	ND	5.57	n	**	0	11	**		
Carbon tetrachloride	ND	5.57	16	10	ri	II		и	
Chlorobenzene	ND	5.57	*1	н	"	u	н	Ĥ	
Chlorodibromomethane	ND	5.57	*1	11	11	0	1.	n	
Chloroethane	ND	5.57	0		"	D.	. "		
Chloroform	ND	5.57	н	n	n	**	"	11	
Chloromethane	ND	5.57	h	D.	11	ıı	*:	и	
1,1-Dichloroethane	ND	5.57	**	n	*1	H	**	11	
1,2-Dichloroethane	ND	5.57	•	•	11	п	P	**	
1,1-Dichloroethene	П	5.57		**	11	n		н	
cis-1,2-Dichloroethene	14.1	5.57	**	11	ıı	11	Ħ	"	
trans-1,2-Dichloroethene	ND	5.57	**	н	n	υ	**	11	
1,2-Dichloropropane	ND	5.57	"	11		U		**	
cis-1,3-Dichloropropene	ПИ	5.57	n	1:	**	"	н	**	
trans-1,3-Dichloropropene	ND	5.57	11	**	**	n	11	11	
Ethylbenzene	ND	5.57	n		**	11	N	п	
2-Hexanone	ND	11.1	**	11	11	**	11	**	
Mothylene chloride	ND	5.57	H	11	п	μ	u	H	
4-Methyl-2-pentanone	ND	11.1	10	**	**	"	**	n	
Styrene	ND	5.57	**	"	11	"	11	**	
1,1,2,2-Terrachloroethane	ND	5.57	n	*1	n n	ų	**	u	
Tetrachloroethene	148	5.57	11	ıı	Ħ	II	11	h	
Toluene	ND	5.57	и	11	"	11			
1,1,1-Trichloroethane	ND	5.57	11	11	et	ш	u	n	
1,1,2-Trichloroethane	ND	5.57	"	11	n	n	11	**	
Trichloroethene	ND	5.57	**	11	**	11	11	n	
Trichlorofluoromethane	ND	5.57	P	n	H	"		11	
Vinyl acetate	ND	11.1	**	li .	tt	n	11	11	
Vinyl acctate Vinyl chloride	ND	5,57	n	n	47	rt		#	
Total Xylenes	ND	5.57		**	u	11	u	11	
Surrogate: Dibromofluoromet.		108 %		?-134	·	<u>"</u>	··· "		
Surrogate: 1,2-Dichloroethan		122 %		R-145	,,	"	"	n	
	:=u7	104 %		-143 -121	"	"	"	ıı.	
Surrogate: Toluene-d8	wan a	92.2 %		8-113	"	"	ıt		
Surrogate: 4-Bromofluoroben	zene	94.4.70	70.0	7-113					

Great Lakes Analytical

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EPS Environmental Services, Inc.

7237 W. Devon Avenue Chicago IL, 60631 Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## Polynuclear Aromatic Compounds by EPA Method 8310

### Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
GP-1@9 (B111495-01) Soil	Sampled: 11/29/01 00:00	Received:	11/30/01 0	9:45			<del></del>		 G1
Acenaphthene	ND	119	ug/kg dry	1	1120052	12/04/01	12/06/01	EPA 8310	
Acenaphthylene	ND	237	P.	10	11	н	и	u	
Anthraceae	ND	119	11	b	P	n	В	ш	
Benz (a) anthracene	ND	59.3	**	n	ņ	U	41	11	
Benzo (a) pyrene	ND	5.93	и	u	*1	11	ч	п	
Benzo (b) fluoranthene	ND	59.3	и	11	ħ	11	"	n	
Benzo (ghi) perylene	ND	119	11	11	ır	'n		u	
Benzo (k) fluoranthene	ND	119	0.	11		4	**	н	
Chrysene	ND	119	P	11	11	p	н	"	
Dibenz (a,h) anthracene	ND	5.93		*1	n	p	D.	n	
Fluoranthene	ИD	119		и	"	D	n.	n	
Fluorene	ND	119	**	u u	"	v	n .	н	
Indeno (1,2,3-cd) pyrene	ND	59.3	11	"	P	11	**	н	
Naphthalene	ND	119	6	н	ii .	n		n,	
Phenanthrene	ND	119	11	"	4	11	ı	11	
Pyrene	ND	119			"	11	11	н	
Surrogate: Carbazole		77.0 %	29-	/32	11	"	"	"	

Great Lakes Analytical

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EPS Environmental Services, Inc.

7237 W. Devon Avenue Chicago IL, 60631 Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

### Percent Solids

### Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Propared	Analyzed	Method	Notes
GP-1@9 (B111405-01) Soil S	Sampled: 11/29/01 00:00 F	Received: 1	1/30/01	09:45					<del></del>
% Solids	84.3	0.100	%	1	1120002	12/03/01	12 03/01	Balance	
HB-1@3-4 (B111495-03) Soil	Sampled: 11/29/01 00:00	Received:	11/39/0	1 00:45					
% Solids	91.3	0.100	%	l	1120002	12/03/01	12/03/01	Balance	
HB-2@1-2 (B111405-04) Soil	Sampled: 11/29/01 00:00	Received:	11/30/0	1 09:45					
% Solids	89.8	0.100	G/n	l	1120002	12/03/01	12/03/01	Balance	

Great Lakes Analytical

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EPS Environmental Services, Inc.

7237 W. Devon Avenue Chicago IL, 60631 Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## General Chemistry - Quality Control Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110515 - General Prep WC										
LCS (1110515-BS1)				Prepared &	& Analyze	:d: 11/30:	'O t			
pH	7.00	p	H Units	7.00		100	98.6-101 4			
LCS Dup (1110515-BSD1)				Prepared &	& Analyże	:d: 11/30/	O1			
Н	7.01	p	H Units	7.00		100	98.6-101 4	0.143	1	
Duplicate (1110515-DUPI)	Son	rce: \$111405-	-93	Prepared 8	2 Analyzo	ed: 11/30a	01			
pH	9.66	p	H Unics		9.66			0 00	1	
Batch 1120105 - General Prep WC		·			·			<del></del> . <u>.</u>		·
Blank (1120105-BLK1)				Prepared &	& Analyze	ed: 12/06	′01			
Cyanide (total)	ND	0.250 m	g/kg wet							
LCS (1120105-BS1)				Prepared &	& Analyze	ed: 12/06	01			
Cyanide (total)	14.0	0.250 m	g/kg wet	12.4		113	56-127			
Matrix Spike (1120105-MSJ)	Sou	rce: B111397	-14	Prepared a	& Analyzo	ed: 12/06	/01			
Cyanide (total)	12.4	0.250 m	g/kg wet	12.2	ND	100	43-154	- · —		
Matrix Spike Dup (1120105-MSD1)	Sou	rce: B111397	-14	Prepared a	& Analyze	ed: 12/06	/01	_		
Cyanide (total)	12.3	0.250 m	g/kg wet	12.2	ND	99.6	43-154	0.810	15	

Great Lakes Analytical

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EPS Environmental Services, Inc.

7237 W. Devon Avenue

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101

Reported:

Chicago IL, 60631

Project Manager: Nick Cuzzone

12/07/01 16:41

## Priority Pollutant Metals by EPA 6000/7000 Series Methods - Quality Control Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120088 - EPA 3050B										
Blank (1120088-BLK1)				Prepared	& Analyze	ed: 12/06/0	01			
Antimony	ND	5.00	mg/kg wet							
Arsenic	ND	2.50	n							
Beryllium	ND	0.500	r							
Cadmium	ND	0.500	"							
Chrowium	ND	0.500	н							
Сорџег	ND	2.50	**							
Lead	ND	1.00	11							
Nickel	ND	2.50	*							
Selenium	ND	2.50	н				•			
Silver	ND	2.50	п							
Thalleum	ND	4.00	۳							
Zinc	ND	25.0	11							
LCS (1120088-BS1)				Prepared	& Analyze	ed: 12/06/	01			
Antimony	206	5.00	mg/kg wet	200		103	68.6-124			
Arsenic	112	2.50	"	106		106	86.2-115			
Beryllium	210	0.500	"	200		105	85.7-115			
Cadmium	204	0.500	,,	200		102	83.3-110			
Chromium	203	0.500	"	200		102	83.9-110			
Copper	207	2.50	n	200		104	84.6-112			
Lead	210	1.00	li .	201		104	81-110			
Nickel	203	2.50	•	200		102	85.2-109			
Smenium	56.4	2.50	1)	56.0		101	83.3-116			
Silver	197	2.50	п	200		98.5	10-167			
Thallium	427	4.00	**	400		107	80.4-110			
Zinc	205	25.0	n	200		102	81.1-121			
Marrix Spike (1120088-MS1)	So	urce: B1113	77-01	Prepared	& Analyz	ed: 12/06/	01			
Antimony	158	5.00	mg/kg wet	198	ND	79.7	10-114			
Arsenic	94.6	2.50	*	105	ND	90.1	49.9-109			
Beryllium	183	0.500	"	198	ND	92.4	47.5-105			
Cadmium	174	0.500	11	198	ND	87.9	28.2-129			
Chromium	187	0.500	ij	198	14.7	87.0	51.1-99			
Copper	384	2.50	11	198	205	90.4	53.1-104			
Lead	189	1.00	n	199	11.2	89.3	34.7-108			
Nickel	183	2.50		198	6.11	89.3	48.2-100			
Selenium	51.2	2.50		55.4	2.95	87.1	52.7-100			
Silver	178	2.50		198	5.92	86.9	10-135			
Thallium	372	4.00		396	ND	93.0	48.6-101			

Andy Johnson, Project Manager

Great Lakes Analytical

Page 11 of 21

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EPS Environmental Services, Inc.

7237 W. Devon Avenue Chicago IL, 60631 Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## Priority Pollutant Metals by EPA 6000/7000 Series Methods - Quality Control Great Lakes Analytical

	D and a series of		6 3							
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1120088 - EPA 3050B							· ·	····		
Matrix Spike (1120088-MS1)	Sou	rce: B1113	77-01	Prepared	& Analyzo	ed: 12/06/	01			
Zinc	420	25.0	mg/kg wet	198	245	88.4	10-159			
Matrix Spike Dup (1120088-MSD1)	Sou	rce: B1113	77-01	Prepared	& Analyzo	ed: 12/06/	'O1			
Antimony	155	5.00	mg/kg wet	198	ND	78.2	10-114	1.92	29,9	
Arsenic	93.2	2.50	"	105	ND	88.8	49.9-109	1.49	19.9	
E-cryllium.	180	0.500	•	198	ND	90.9	47 5-105	1.65	22	
Cadmium	172	0.500	**	198	ND	86.9	28.2-129	1.16	21.6	
Chromium	194	0.500		198	14.7	85.5	51.1-99	1.62	19.8	
Copper	396	2.50	ii.	198	205	96.5	53,1-104	3.08	27.8	
Lead	190	1.00		199	11.2	89.3	34.7-103	0.528	31.9	
Nickel	179	2.50		198	6.11	87.3	48.2-100	2.21	35.2	
Selenium	52.1	2.50	71	55.4	2.95	88.7	52.7-100	1.74	23	
Silver	175	2.50	п	198	5.92	85.4	10-135	1.70	76.2	
Thallium	363	4.00	P	396	ND	90.7	48.6-101	2.45	24.9	
Zinc	418	25.0	"	198	245	87.4	10-159	0.477	137	

Great Lakes Analytical



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EPS Environmental Services, Inc.

Project: 2325 W. Wisconsin Downers Grove

7237 W. Devon Avenue Chicago IL, 60631

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## Total Metals by EPA 6000/7000 Series Methods - Quality Control Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120084 - EPA 7471A					<u>~</u>	-				
Blank (1120084-BLK1)				Prepared a	& Analyze	ed: 12/06/	01			
Mercury	ND	0.0400	mg/kg wet							
LCS (1120084-BS1)				Prepared a	& Analyza	ed: 12/06/	01			
Mercury	0.124	0.0400	mg/kg wet	0.120		103	71.9-126			
Matrix Spike (1120084-MS1)	So	urce: Bill3	77-01	Prepared a	& Analyzo	ed: 12/06/	01			
Mercury	0.882	0.400	mg/kg wet	0.120	0.838	36.7	38.3-154			G12
Matrix Spike Dup (1120084-MSD1)	So	urce: B1113	77-01	Prepared a	& Analyz	ed: 12/06/	01			
Mercury	0.846	0.400	mg/kg wet		0.838	6.67	38:3-154	4.17	9.52	G12
Batch 1120088 - EPA 3050B										
Blank (J120088-BLK1)				Prepared	& Analyz	ed: 12/06/	<b>7</b> 91			
Arsenic	ND	2.50	mg/kg wet					*		
Barium	ND	25.0	u							
Cadmium	ND	0.500	n							
Chronium	ND	0.500	"							
Lead	ND	1.00	"							
Selenium	ND	2.50	11							
Silver	ND	2.50								
LCS (11296BS1)				Prepared	& Analyz	ed: 12/06/	01			
Arsenic	112	2.50	mg/kg wet	106		106	81.1-121			
Barium	206	25.0	n n	200		103	72.9-121			
Cadmium	204	0.500	n	200		102	74.3-118			
Chromium	203	0.500	n	200		102	72.2-121			
Lend	210	1.00	"	201		104	72.2-121			
Selenium	56.4	2.50	n	56.0		101	73.1-120			
Silver	197	2.50	D	200		98.5	10-155			

Great Lakes Analytical

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7237 W. Devon Avenue

Chicago IL, 60631

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## Total Metals by EPA 6000/7000 Series Methods - Quality Control Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120088 - EPA 3050B	******						····			
Matrix Spike (1120088-MS1)	Soi	urce: B11137	77-01	Prepared	& Analyzo	ed: 12/06/	O1			
Arsenic	94.6	2.50	mg/kg wet	105	ND	1.00	53.1-117			
Barium	305	25.0	n	198	128	89.4	54.3-111			
Cadmium	174	0.500	u	198	ND	87.9	52.5-108			
Claoriium	187	0.500	11	198	14.7	87.0	43.3-115			
Lend	139	1.00		199	11.2	89.3	43.3-115			
Solenium	51.2	2.50	•	55.4	2.95	87.1	47.3-113			
Sitvei	178	2.50	н	198	5 92	86.9	10-117			
Matrix Spike Dup (1120088-MSD1)	Soc	nrce: B11137	77-01	Prepared	& Analyz	ed: 12/06/	/01			
Arsenic	93.2	2.50	mg/kg wet	105	ND	88.8	53.1-117	1.49	26.7	
Barium	306	25.0	"	198	128	89.9	54.3-111	0.327	28.8	
Cadmium	172	0.500	п	198	ND	86.9	52.5-108	1.16	24.9	
Chromium	184	0.500	"	198	14.7	85.5	43.3-115	1.62	24.1	
Lead	190	1.00	n	199	11.2	2.63	43.3-115	0.528	24.1	
Selenium	52.1	2.50	**	55.4	2.95	88.7	47.3-113	1.74	25.3	
Silver	175	2.50	"	198	5.92	85.4	10-117	1.70	40.2	

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EPS Environmental Services, Inc.

7237 W. Devon Avenue

Chicago IL, 60631

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101

Reported: 12/07/01 16:41

Project Manager: Nick Cuzzone

## Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120056 - EPA 5035B [P/T]										
Blank (1120055-BLK1)			······································	Prepared a	& Analyzo	ed: 12/04/(	———— 01			
Acetone	ND	25.0	ug/kg wet		·					
Benzene	ND	5.00	11							
Bromodichloromethane	ND	5.00	ч							
Bromoform	ND	5.00								
Bromomethane	ND	5 00	11							
1-Butonone	ND	10.0	n							
Carben disulfide	N.D	5.00	D							
Carbon tetrachloride	ND	5.00	11							
Chlorobenzene	ND	5.00	11				,			
Chlorodibromomethane	ND	5.00	r							
Chloroethane	ND	5.00	41							
Chloroform	ND	5.00	11							
Chloromethane	ND	5.00	11							
1.1-Dichloroethane	ND	5.00	14							
1,2-Dichloroethane	ND	5.00	n							
1,1-Dichloroethene	ND	5.00	**							
cis-1,2-Dichloroethene	ND	5.00	**							
trans-1,2-Dichloroethene	ND	5.00	11							
1,2-Dichloropropane	ND	5.00	ŧŧ							
cis-1,3-Dichloropropene	ND	5.00	и							
trans-1,3-Dichloropropene	ND	5.00	17							
Ethylbenzene	ND	5.00	u							
2-Hexanone	ND	10.0	**							
Methyle te chloride	ND	5.00	**							
4-Methyl-2-pentanone	ND	10.0	N							
Styrene	ND	5.00	и							
1,1,2,2-Tetrachloroethane	ND	5.00	"							
Tetrachloroethene	ND	5.00	n							
Toluene	ND	5.00	u							
1,1,1-Trichloroethane	ND	5.00	n							
1,1,2-Trichloroethane	ND	5.00	n							
Trichloroethene	ND	5.00	**							
Trichlorofluoromethane	ND	5.00	11							
Vinyl acetate	ND	10.0								
Vinyl chloride	ND	5.00								
Total Xylenes	ND	5.00								
Surrogate: Dibromofluoromethane	49.8		и	50.0		99.6	81.2-134		······	
Surrogate: 1,2-Dichloroethane-d4	49.6		"	50.0		99.2	50.8-145	•		

Great Lakes Analytical



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EPS Environmental Services, Inc.

Project: 2325 W. Wisconsin Downers Grove

7237 W. Devon Avenue Chicago IL, 60631 Project Number: 3936-1101 Project Manager: Nick Cuzzone Reported: 12/07/01 16:41

## Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control Great Lakes Analytical

Analyte	Result	Reporting Lamit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120056 - EPA 5035B [P/T]										
Blank (1120056-BLK1)				Prepared of	& Analyze	d: 12/04/	01			
Surrogate: Toluen:-d8	<i>50.6</i>		ug/kg wet	50.0		101	82-121			
Surrogate: 4-Bromofluorobenzene	50.5		,,	50.0		101	76.8-113			
L.CS (1120056-BS1)				Prepared	& Analyze	ed: 12/04/	01			
Acetone	72.4	25 0	ug/kg wet	50.0		145	10-166			
Benzene	55.5	5.00	11	50.0		111	62.1-138			
Bromodichloromethane	61.0	5.00	4,	50.0		122	64.3-125			
Bromoform	54.4	5.00	**	50.0		109	47.5-124			
Bromomethane	39.7	5.00	"	50.0		79. <b>4</b>	49.2-198			
2-Butanone	118	10.0	11	50.0		236	10-214			
Carbon disulfide	42.5	5.00	13	50.0		85.0	10-175			
Carbon tetrachloride	56.9	5.00	r	50.0		114	51,1-134			
Chlorobenzene	61.4	5.00	п	50.0		123	63.5-135			
Chlorodibromomethane	61.8	5.00	v	50.0		!24	67.5-121			
Chloroethane	49.6	5.00	n	50.0		99.2	10-537			
Chloroform	53.8	5.00	u	50.0		108	69.2-124			
Chioromethane	46.3	5.00	и	50.0		92.6	67.4-162			
1.1-Dichloroethane	48.6	5.00	**	50.0		97.2	63-127			
1,2-Dichloroethane	60.6	5.00	10	50.0		121	57.5-125			
1,1-Dichloroethene	52.6	5.00	Ħ	50.0		105	59.9-129			
cis-1,2-Dichloroethene	57.1	5.00	n	50.0		114	64.4-137			
trans-1,2-Dichloroethene	46.7	5.00	n	50.0		93.4	59-135			
1,2-Dichloropropane	53.2	5.00	**	50.0		106	66.3-132			
cis-1,3-Dichloropropene	79.7	5.00	11	50.0		141	67.9-124			
trans-1,3-Dichloropropene	70.7	5.00	11	50.0		141	63.6-124			
Ethylbenzene	58.1	5.00	17	50.0		116	60-141			
2-Hexanone	90.8	10.0	ır	50.0		182	10-175			
Methylene chloride	34.5	5.00	ņ	50.0		69.0	28.4-149			
4-Methyl-2-pentanone	53.8	10.0	11	50.0		108	10-188			
Styrene	63.0	5.00	**	50.0		126	64.6-136			
1,1,2,2-Tetrachloroethane	49.3	5.00	H	50.0		98.6	68.4-137			
Tetrachloroethene	65.5	5.00	,,	50.0		131	57.6-142			
Toluene	60.0	5.00	,,	50.0		120	64.1-134			
1,1,i-Trichloroethane	58.1	5.00	n	50.0		116	60-134			
1,1,2-Trichloroethane	61.6	5.00	r	50.0		123	76.4-125			
Trichlor rethens	61.0	5.00		50.0		122	61.8-132			
Trichlorofluoromethane	45.9	5.00		50.0		91.8	14.6-241			
Vinyl acetate	36.1	10.0		50.0		72.2	10-161			

Great Lakes Analytical



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EPS Environmental Services, Inc.

Project: 2325 W. Wisconsin Downers Grove

7237 W. Devon Avenue Chicago IL, 60631 Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120056 - EPA 5035B [P/T]			· · · · · · · · · · · · · · · · · · ·		<del></del>					
LCS (1120056-BS1)				Prepared	& Analyze	ed: 12/04/	01			
Viny, chloride	44.8	5.00	ug/kg wet	50.0		89.6	57.9-143			
Total Xylenes	181	5.00	11	150		121	60-141			
Surrogate: Dibromofluoromethane	49.2		"	50.0		98.4	81.2-134			
Surrogate: 1,2-Dichloroethane-d4	50.7		"	50.0		16!	50.8-145			
Surrogaic: Toluene-d8	50.5		"	50.0		101	82-121			
Surrogate: 4-Bromofluorobenzene	52.2		,,	50.0		104	76.8-113			
LCS Dup (1120056-BSD1)				Prepared:	12/04/01	Analyzeo	d: 12/05/01			
Acetone	77.1	25,0	ug/kg wet	50.0	+ +	154	10-166	6.29	345	
Benzene	51.9	5.00	"	50.0		104	62.1-138	6.70	41.4	
Bromodichloromethane	59.9	5.00	u	50.0		120	64.3-125	1.82	42	
Bromoform	50.4	5.00	н	50.0		101	47.5-124	7.63	57.4	
Bromomethane	27.1	5.00	11	50.0		54.2	49.2-193	37.7	61.9	
2-Butanone	54.0	10.0	11	50.0		108	10-214	74.4	173	
Carbon disulfide	55.4	5.00	н	50.0		111	10-175	26.4	126	
Cerbon tetrachloride	59.1	5.00		50.0		118	51.1-134	3.79	43.5	
Chlorobenzene	58.0	5.00	"	50.0		116	63.5-135	5.70	39	
Chlorodibromomethane	60.1	5.00	"	50.0		120	67.5-121	2.79	41.6	
Chloroethane	64.2	5.00	n	50.0		128	10-537	25.7	90.3	
Chloroform	54.9	5.00	ti .	50.0		110	69.2-124	2.02	43.5	
Chloromethane	27.4	5.00	17	50.0		54.8	67.4-162	51.3	71.8	
1,1-Dichloroethane	46.8	5.00	P	50.0		93.6	63-127	3.77	41.8	
1,2-Dichloroethane	59.3	5.00	"	50.0		119	57.5-125	2.17	68.6	
1,1-Dichloroethene	45.7	5.00	п	50.0		91.4	59.9-129	14.0	47.5	
cis-1,2-Dichloroethene	57.5	5.00	**	50.0		115	64.4-137	0.698	39.3	
trans-1,2-Dichloroethene	4-1.9	5.00	"	50.0		89.8	59-136	3.93	43	
1,2-Dichloropropane	50.1	5.00	н	50.0		100	66.3-132	6.00	38.1	
cis-1,3-Dichloropropene	61.9	5.00	11	50.0		124	67.9-124	13.3	41.5	
trans-1,3-Dichloropropene	61.9	5.00	n	50.0		124	63.6-124	13.3	57.2	
Ethylbenzene	57.6	5.00	11	50.0		115	60-141	0.864	42.7	
2-Hexanone	40.9	10.0	n	50.0		81.8	10-175	75.8	128	
Methylene chloride	77.2	5.00	11	50.0		154	28.4-149	76.5	67.4	
4-Methyl-2-pentanone	41.6	10.0	11	50.0		83.2	10-188	25.6	119	
Styrene	58.6	5.00	. "	50.0		117	64.6-136	7.24	37.2	
1,1,2,2-Tetrachloroethane	43.1	5.00	11	50.0		86.2	68.4-137	13.4	54.6	
Tetrachloroethene	69.2	5.00	ti.	50.0		138	57.6-142	5.49	46.3	
Toiuene	54.8	5.00	"	50.0		110	64.1-134	9.06	42.6	
1,1,1-Trichloroethane	61.1	5.00	11	50.0		122	60-134	5.03	44.2	

Great Lakes Analytical



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EPS Environmental Services, Inc.

7237 W. Devon Avenue

Chicago IL, 60631

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone Reported:

12/07/01 16:41

## Volatile Organic Compounds by EPA Method 5035/8260B - Quality Control Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120056 - EPA 5035B [P/T]										
LCS Dup (1120056-BSD1)				Prepared:	12/04/01	Analyzed	l: 12/05/01			
1.i,2-Trichloroethane	56.5	5.00	ug'kg wet	50.0		i 13	76.4-125	8.64	53.2	
Trichloroethene	57.9	5.00	"	50.0		116	61.8-132	5.21	43.5	
Trichlorofluoromethane	54.2	5.00	"	50.0		108	14.6-241	16.6	115	
Vinyl acetate	33.4	10.0	"	50.0		65.8	10-161	7.77	92.1	
Vinyl chloride	31.6	5.00	"	50.0		63.2	57.9-143	34.6	81	
Total Xylenes	171	5.00	11	150		114	60-141	5.68	40.1	
Surrogate: Dibronofluoromethane	50,7		"	50.0		101	81.2-134			
Surrogate: 1,2-Dickloroethane-d4	51.1		u	50.0		102	50.8-145			
Surrogaie: Toluene-d8	50.5		"	50.0		101	82-121			
Surrogate: 4-Bromofluorobenzene	53.0		n	50.0		106	76.S-113			

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EPS Environmental Services, Inc.

7237 W. Devon Avenue

Chicago IL, 60631

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported: 12/07/01 16:41

## Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control Great Lakes Analytical

  Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Nesun	Limi	Onts	Level	Result	76NEC	Lillills	KrD	Lillit	Notes
Batch 1120052 - EPA 3550B										
Blank (1120052-BLK1)				Prepared:	12/04/01	Analyzed	1: 12/07/01			
Apenny hibone	<b>ה</b>	100	ng/kg wet	-						
Acenaphthylene	ND	200	q							
Anthracene	ND	100	н							
Bonz (a) untiracene	ND	50.0	n							
Benzo (a) pyrone	ND	5.00	**							
Benzo (b) fluoranthene	ND	50.0	n							
Benzo (ghi) perylene	מא	100	.,							
Benzo (k) fluoranthene	ND	100	11							
Chrysene	ND	100	¢1							
Dibenz (a,h) anthracene	ND	5.00	n							
Fluoranthene	ND	100	p							
Fluorene	ND	100	11							
Indeno (1,2,3-cd) pyrene	ND	50.0	P							
Naphthalene	ND	100	п							
Phenanthrene	ND	100	Ħ							
Pyrene	ND	100	n							
Surrogate: Carbazole	18.5		и	17.0		109	29-132			
LCS (1120052-BS1)				Prepared	: 12/04/01	Analyzed	i: 12/07/01			
Acenaphthene	47.0	1.00	ug/kg wet	67.6		69.5	30.8-120			
Acenaphthylene	89.7	2.00	II	67.6		133	38.9-158			
Anthracene	45.4	1.00	U	676		67.2	32.9-122			
Denz (a) anthracene	52.2	0.500	**	67.6		77.2	40.5-125			
Benzo (a) pyrene	43.2	0.0500	н	67.6		63.9	31.2-128			
Benzo (b) fluoranthene	49.7	0.500	ıt	67.6		73.5	45-132			
Benzo (ghi) perylene	51.8	1.00	11	67.6		76.6	38.7-137			
Benzo (k) fluoranthene	51.8	1.00	Ħ	67.6		76.6	53.4-125			
Chrysene	52.3	1.00	4	67.6		77.4	45.5-129			
Dibenz (a,h) anthracene	62.6	0.0500		67.6		92.6	42.8-134			
Fluoranthene	49.5	1.00		67.6		73.2	37.1-116			
Fluorene	46.6	1.00		67.6		68.9	40.8-108			
Indeno (1,2,3-cd) pyrene	52.3	0.500		67.6		77.4	51-115			
Naphthalene	65.9	1.00		67.6		97.5	22.7-116			
Phenanthrene	51.9	1.00		67.6		76.8	29.5-123			
Pyrene	54.1	1.00		67.6		80.0	44.5-118			
Surrogate: Carbazole	16.5		и	16.9		97.6	29-132			
<b>.</b>										

Great Lakes Analytical

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EPS Environmental Services, Inc.

7237 W. Devon Avenue Chicago IL, 60631 Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone

Reported; 12/07/01 16.41

## Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1120052 - EPA 3550B										
Matrix Spike (1120052-MS1)	Sot	rce: B1113	94-01	Prepared:	12/04/01	Analyzed:	12/07/01			
Acent phthene	103	1.14	ug/kg dry	76.8	20.2	114	10-154			
Acenaphthylen <b>e</b>	158	2.29	11	76.8	64.0	122	10-176			
Anthracen <b>e</b>	61.5	1.14	ľ	76.8	ND	80.1	10-114			
Benz (a) anthracene	67.4	0.572	11	76.3	ND	87.8	10-118			
Benzo (a) pyrene	55.5	0.0572	11	76.8	ND.	72.3	10-133			
Benzo (b) fluoranthene	62.4	0.572	11	76.8	ND	81.2	10-125			
Benzo (ghi) perylene	64.3	1.14	P	76.8	ND	83.7	10-103			
Benzo (k) fluoramhene	77.2	1.14	11	76.8	ND	101	10-112			
Chrysene	66.9	1.14	н	76.8	ND	87.1	10-121			
Dibenz (a,h) anthracene	60.2	0.0572	b	76.8	ND	78.4	13.9-101			
Fluoranthene	71.7	1.14	**	76.8	ND	93.4	10-123			
Fluorene	66.2	1.14	Ħ	76.8	ND	86.2	10-144			
Indeno (1,2,3-cd) pyrene	67.3	0.572	u	76.8	ND	87.6	10-103			
Naphthalene	213	1.14	11	76.8	98.6	149	10-132			
Phenanthrene	71.7	1.14	r	76.8	6.15	85.4	10-130			
Pyrone	82.5	1.14	н	76.8	ND	107	10-145			
Surrogate: Carbazole	21.2		"	19.2	<del></del>	110	29-132			
Matrix Spike Dup (1120052-MSD1)	Son	urce: B1113	94-01	Prepared:	12/04/01	Analyzed	: 12/07/01			
Acenaphthene	149	1.14	ug/kg diy	75.0	20.2	172	10-154	31.9	66.4	
Acenaphthylene	161	2.29	n	75.0	64.0	129	10-176	1.88	65.7	
Anthracene	59.9	1.14	tı	75.0	ND	79.9	10-114	2.64	67.1	
Benz (a) anthracene	70.9	0.572	*	75.0	ND	94.5	10-118	5.06	57.8	
Benzo (a) pyrene	52.8	0.0572	"	75.0	ND	70.4	10-133	4.99	54.5	
Benzo (b) fluoranthene	61.1	0.572	Ħ	75.0	ND	81.5	10-126	2.11	51.9	
Benzo (ghi) perylene	63.0	1.14	11	75.0	ND	84.0	10-103	2.04	65.9	
Benzo (k) fluoranthene	63.9	1.14	11	75.0	ND	85.2	10-112	18.9	59.3	
Chrysene	65.6	1.14	P.	75.0	ND	87.5	10-121	1.96	65.2	
Dibenz (a,h) anthracene	58.6	0.0572	•	75.0	ND	78.1	13.9-101	2.69	49.8	
Fluoranthene	63.6	1.14	"	75.0	ND	84.8	10-123	12.0	58.7	
Fiuorene	64.2	1.14	11	75.0	ND	85.6	10-144	3.07	53.9	
Indeno (1,2,3-cd) pyrene	63.9	0.572	*	75.0	ND	85.2	10-103	5.18	55.8	
Naphthalene	249	1.14		75.0	98.6	201	10-132	15.6	62.5	
Phenanthrene	71.4	1.14	•	75.0	6.15	87.0	10-130	0.419	57.4	
Fyrene	94.3	1.14		75.0	ND	126	10-145	13.3	56.6	
Surrogate: Carbazole	20.0			18.8		106	29-132			

Great Lakes Analytical



Email: info@glalabs.com (847) 808-7766 FAX (847) 808-7772

EPS Environmental Services, Inc.

7237 W. Devon Avenue

Chicago IL, 60631

RPD

Relative Percent Difference

Project: 2325 W. Wisconsin Downers Grove

Project Number: 3936-1101 Project Manager: Nick Cuzzone Reported: 12/07/01 16:41

### Notes and Definitions

G1	The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
G19	The relative percent difference (RPD) of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
G2	The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is below the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
G4	The recovery of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is below the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dıy	Sample results reported on a dry weight basis



## APPENDIX C

Comparison Table

TACO Tier 1 Values	Exposure R	oute-Specific	Migration to	Groundwaler	Background			
2325 West Wisconsin Street	Values	for Soil	Ingestion Expos	ure Route Value	Value			
Downers Grove, Illinois					İ			
Residential Land Use	Ingestion	Inhalation	Class I	Class II				
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Sam	ple Results, mo	ı/kg
Sample ID				<u> </u>		GP-1/9'	HB-1/3'-4'	HB-2/1'-2'
Sample Date						11/29/01	11/29/01	11/29/01
Constituent								
Arsenic	0.4	750	0.05*	0.2*	7.2	3.79	<2.74	<2.78
Barium	5,500	690,000	2.0*	2.0*	110	41.0	NA	NA
Chromium	390	270	0.1*	1.0*	16.2	11.6	12.4	15.5
Copper	2,900		0.65*	0.65*	19.6	NA	15.3	14.5
Lead	400		0.0075*	0.1*	36.0	11.6	12.4	10.5
Nickel	1,600	13,000	0.1*	2.0*	18.0	NA	15.9	30.6
Selenium	390		0.05*	0.05*	0.48	2.97	<2.74	<2.78
Thallium	6.3		0.002*	0.02*	0.32	NA	5.12	5.75
Zinc	23,000		5.0*	10*	95.0	NA	53.7	52.2
cis-1,2,Dichloroethene	780	1,200	0,4	1.1	ND	<0.00593	<0.00548	0.0141
Fetrachloroethene	12	11	0.06	0.3	NO	<0.00593	0.134	0.148

Only those compounds identified above laboratory detection limits are included.

Pold = Exceeds Tier 1 Ingestion SRO

--- = No toxicity criteria available for this route of exposure

NA= Not Analyzed, ND = No data available

0.0075\* = SPLP Value; Samples Analyzed for Total Metals Only